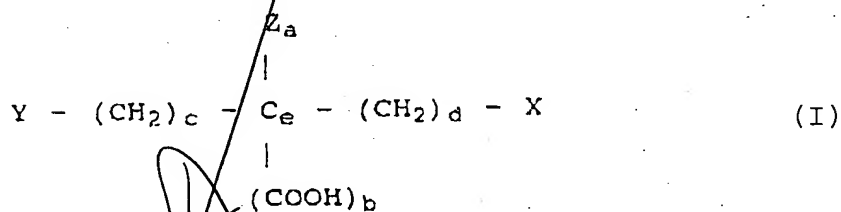


ABSTRACT

Ins. A5 >
A NOVEL BIODEGRADABLE LINEAR COPOLYMER, A COMPOSITION
5 COMPRISING IT, AND USES OF THE COPOLYMER AND
COMPOSITION

10 The object of the invention is a novel copolymer
comprising at least two identical or different
monomers, the formula of the monomer being as follows
(I):



15 in which:

a) when X and Y are identical or different, and
represent an acid, alcohol, amine or isocyanate group,

20 then at least two monomers have groups able to react
together when X and Y are identical, or at least one
monomer comprises groups able to react with each other
when X and Y are different, and

25 at least one of the monomers has the following
characteristics:

$$a \geq 1$$

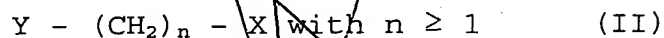
$$b \geq 2$$

$$c + d \geq 0$$

$$e \geq 1$$

and Z can be OH, COOH, an alkyl having 1 to 18 carbon atoms, or any other non-reactive group present during the polymerisation process,

the other monomers being of the same type or of the following formula (II):



b) at least one monomer of each type when X and Y are identical or different, as defined above, are combined so that the stoichiometry of the ratio X / Y, calculated so as to obtain a given molar mass and given extremities, permits an elongation of the carbon-containing chain.

The invention also relates to a composition comprising the copolymer and to uses of the copolymer and composition.